# Missouri Department of Natural Resources



#### **PUBLIC NOTICE**

#### APPLICATION FOR MISSOURI STATE OPERATING PERMIT

DATE: August 18, 2006

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed effluent limitations and/or determinations are invited to submit them in writing to the Department of Natural Resources, Southwest Regional Office, Water Pollution Unit, 2040 W. Woodland, Springfield, Missouri 65807, ATTN: Cynthia S. Davies, Regional Director. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The department may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see <u>Curdt v. Mo. Clean Water Commission</u>, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by September 17, 2006 or received in our office by 5:00 p.m. on September 20, 2006. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits, comments, and other information including copies of applicable regulations are available for inspection and copying at the department's website, <a href="http://www.dnr.mo.gov/env/wpp/wpcp-pn.htm">http://www.dnr.mo.gov/env/wpp/wpcp-pn.htm</a> or at the Department of Natural Resources, Southwest Regional Office, Water Pollution Unit, 2040 W. Woodland, Springfield, Missouri 65807, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Public Notice Date: August 18, 2006 Permit Number: MO-0122033				
Southwest Regional Office  FACILITY NAME AND ADDRESS NAME AND ADDRESS OF OWN				
Cross Creek Subdivision WWTF Cross Creek Road	Cross Creek Homeowners Association P.O. Box 819			
Camdenton, MO 65020	Linn Creek, MO 65052			
RECEIVING STREAM & LEGAL DESCRIPTION	TYPE OF DISCHARGE			
Unnamed Tributary to Lake of the Ozarks SW <sup>1</sup> / <sub>4</sub> , SE <sup>1</sup> / <sub>4</sub> , SE <sup>1</sup> / <sub>4</sub> , Sec. 01, T38N, R17W Camden County	Domestic, modification			

Plans and specifications for this facility have been reviewed by the Department of Natural Resources. The design engineer, a registered Missouri professional engineer, has certified that the plans and specifications meet all requirements of 10 CSR 20-Chapter 8 Waste Treatment Design.

# STATE OF MISSOURI

# DEPARTMENT OF NATURAL RESOURCES

# MISSOURI CLEAN WATER COMMISSION



# MISSOURI STATE OPERATING PERMIT

MISSOCK	
In compliance with the Missouri Clean Water Pollution Control Act (Public Law 92-500, 9	er Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water 92 <sup>nd</sup> Congress) as amended
Permit No.	MO-0122033
Owner: Address:	Cross Creek Homeowners Association P.O. Box 819, Linn Creek, MO 65052
Continuing Authority: Address:	Same as above
Facility Name: Facility Address:	Cross Creek Subdivision WWTF Cross Creek Road, Camdenton, MO 65020
Legal Description: Receiving Stream: First Classified Stream and ID: USGS Basin & Sub-watershed No.:	SW <sup>1</sup> / <sub>4</sub> , SE <sup>1</sup> / <sub>4</sub> , Sec. 01, T38N, R17W, Camden County Unnamed Tributary to Lake of the Ozarks (U) Lake of the Ozarks (L2) (07205) 303(d) (10290109-080002)
is authorized to discharge from the facility of as set forth herein:	described herein, in accordance with the effluent limitations and monitoring requirements
FACILITY DESCRIPTION Outfall #001 –Store-Shopping Center & Sub	bdivision / Sewerage Works - SIC #6512 & 4952 / 4952
Septic tank recirculating sand filter / chlorin	nation / sludge disposal by contract hauler.
Design organic population equivalent is 264 Design average daily flow is 26,400 gallons Design sludge production is 1.85 dry tons/ye	s per day.
	charges under the Missouri Clean Water Law and the National Pollutant Discharge ner regulated areas. This permit may be appealed in accordance with Section 644.051.6 of
Effective Date (Revised)	Doyle Childers, Director, Department of Natural Resources Executive Secretary, Clean Water Commission

Cynthia S. Davies, Regional Director, Southwest Regional Office

Expiration Date MO 780-0041 (10-93)

#### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 2 of 4

PERMIT NUMBER MO-0122033

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND		FINAL EFF	LUENT LIM	ITATIONS	MONITORING RE	MONITORING REQUIREMENTS	
EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE	
Outfall #001							
Flow	GPD	*		*	once/month**	24 hr. total	
Biochemical Oxygen Demand <sub>5</sub>	mg/L	20		10	once/month**	***	
Total Suspended Solids	mg/L	30		15	once/month**	***	
pH – Units	SU	****	<u></u>	***	once/month**	grab	
Fecal Coliform (Note 1)	#/100 ml	1000		400 (Note 2)	once/month**	grab	
Total Residual Chlorine as Cl <sub>2</sub>	mg/L	0.0033 ( <b>Note 3</b> ) (0.13 ML)		0.0016 ( <b>Note 3</b> ) (0.13ML)	once/month**	grab	
Ammonia as N March – May June – August September – November December – February	mg/h	6.8 3.2 6.8 7.5		3.4 1.6 3.4 3.8	once/month**	grab	

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

THERE SHALL BE

#### **B. STANDARD CONDITIONS**

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u>, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

MO 780-0010 (8/91)

#### A. <u>EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</u> (continued)

- \* Monitoring requirement only.
- \*\* Reports shall be submitted by the 28<sup>th</sup> day of the month following the reporting period, e.g. Reporting period is the month of March (samples collected monthly), report due by April 28<sup>th</sup>.
- \*\*\* A composite sample made up from a minimum of four grab samples collected within a 24-hour period with a minimum of two hours between each grab sample. A person may physically collect the four grab samples or a composite sampler may be set up to collect the four grab samples.
- \*\*\*\* pH is measured in pH units and is not to be averaged. The pH for all facilities except lagoons is limited to the range of 6.0-9.0 pH units.
- Note 1 Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31.
- Note 2 Monthly average limit for Fecal Coliform is expressed as a geometric mean. Geometric mean for  $n \text{ samples} = [a_1 \text{ x } a_2 \text{ x } a_3 \dots \text{x } a_n]^{1/n}$

#### A. <u>EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</u> (continued)

Note 3 - This permit contains a Total Residual Chlorine (TRC) limit.

- (a) This effluent limit is below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The department has determined the current acceptable ML for total residual chlorine to be 0.13 mg/L when using the DPD Colorimetric Method #4500 CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 0.13 mg/L will be considered violations of the permit and values less than the minimum quantification level of 0.13 mg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit.
- (b) Disinfection is required year-round unless the permit specifically states that "Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31." If your permit does not require disinfection during the non-recreational months, do not chlorinate in those months.
- (c) Do not chemically dechlorinate if it is not needed to meet the limits in your permit.
- (d) If no chlorine was used in a given sampling period, an actual analysis is not necessary. Simply report as "0 mg/L" TRC.

#### C. SPECIAL CONDITIONS

- 1. This permit may be reopened and modified or alternatively revoked and reissued, to:
  - (a) Comply with any applicable effluent standard or lumitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

- 2. All outfalls must be clearly marked in the field.
- 3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
- 4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
  - (1) One hundred micrograms per liter (100 μg/L);
  - (2) Two hundred micrograms per liter (200  $\mu$ g/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500  $\mu$ g/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;

#### C. SPECIAL CONDITIONS (continued)

- (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
- 5. Report as no-discharge when a discharge does not occur during the report period.

#### 6. Water Quality Standards

- (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
  - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
  - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be ansightly or prevent full maintenance of beneficial uses;
  - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
  - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life:
  - (5) There shall be no significant human health hazard from incidental contact with the water;
  - (6) There shall be no acute toxicity to livestock or wildlife watering;
  - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
  - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
- 7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
  - (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
  - (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.



#### Missouri Department of Natural Resources Southwest Regional Office

NPDES PERMITS AND ENGINEERING SECTION

## **Water Quality Review Sheet**

**Determination of Effluent Limits** 

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FACILITY NAME: <u>Cro</u>	ss Creek Subdivision WWTF		NPD	DES #: _	MO-0122033
FACILITY TYPE/DESCRIF	The facility is upgrad chlorination / sludge of	_	capacity. Septic tank ntract hauler.	recircul	ating sand filter /
EDU*: Ozark / Osage		8- Digit H	UC: <u>10290109</u> Co	OUNTY:	Camden
* - Ecological Drainage	Unit				
LEGAL DESCRIPTION:	SW <sup>1</sup> / <sub>4</sub> , SE <sup>1</sup> / <sub>4</sub> , SE <sup>1</sup> / <sub>4</sub> , Sec. 01, To Camden County	38N, R17W,	Latitude/Longitui	DE: U7	ГМs: X: 522944.6 Y: 4212033.0
Water Quality Histo	RY: Missing DMR for 2000, 2002, October 2002, Ap		· ·	ıal Chlo	rine in April

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	RECEIVING WATERBODY	DISTANCE TO CLASSIFIED SEGMENT (MI)
001	0.0408	Secondary	Unnamed Tributary to Lake of the Ozarks	0.9

# **Receiving Waterbody Information**

WATERBODY NAME	CLASS WBID		Low-Fi	ow Valu	ES (CFS)	DESIGNATED USES**
WATERBOOT WANTE	CLASS	WBID	1Q10	7Q10	30Q10	DEDIGITATED COES
Unnamed Tributary to Lake of the Ozarks	U	N/A	0	0	0	None
Lake of the Ozarks	L2	07205	423	289	444	LWW, AQL, WBC,SCR

<sup>\*\*</sup> Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery

(CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND)

COMMENTS: Modification of existing facility.

# **Mixing Considerations**

Mixing Zone (MZ): Not allowed. Losing stream.

#### Zone of Initial Dilution (ZID): Not allowed. Losing stream.

	Flow (cfs)	MZ (cfs)	ZID (cfs)
<u>7Q10</u>	0	0	0
1Q10	0	0	0
30Q10	0	0	0

Applicable mixing zone regulation:

#### **Permit Limits and Information**

WASTELOAD ALLOCATION STUDY CONDUCTED (Y OR N):	N A	SE ATTAINABILITY NALYSIS CONDUCTED Y OR N):	N		WHOLE BODY CONTACT USE RETAINED (' N):	Y OR	N
` I N I	Frequenc y:	N/A A	EC:	N/A	Метнор:	N/A	<b>A</b>
AFC % -	Flow + Zo	ion )- X100					

PARAMETER	Daily Maximum	WEEKLY AVERAGE	MONTHLY AVERAGE	Monitoring Frequency
FLOW	Monitor		Monitor	Monthly
BOD <sub>5</sub> (MG/L)	20		10	Monthly
TSS (MG/L)	30		15	Monthly
PH (S.U.)	6-9		6-9	Monthly
AMMONIA AS N (MG/L) (MARCH – MAY)	6.8		3.4	Monthly
Ammonia as N (mg/L) (June - August)	3.2		1.6	Monthly
Ammonia as N (mg/L) (September - November)	6.8		3.4	Monthly
Ammonia as N (mg/L) (December - February)	7.5		3.8	Monthly
TOTAL RESIDUAL CHLORINE (MG/L)	0.0033		0.0016	Monthly
FECAL COLIFORM (COLONIES/100 ML)	1000		400	Monthly

Please report the date, time, and location for each parameter sampled along with the average daily flow (actual flow measured or estimated, not design flow). All the parameters should be sampled on the same day and within no more than a 2-hour period. Dissolved oxygen (DO) measurements are to be taken during the period from one hour prior to sunrise to one and one-half hour after sunrise. If discharge is contingent to storm events, rainfall should be measured every time there is a discharge.

### **Receiving Water Monitoring Requirements**

No receiving water monitoring requirements recommended at this time.

#### **Derivation and Discussion of Limits**

Wasteload allocations were calculated using water quality criteria or water quality model results and the dilution equation below:

$$C = \frac{\left(Cs \times Qs\right) + \left(Ce \times Qe\right)}{\left(Qe + Qs\right)}$$
 (EPA/505/2-90-001, Section 4.5.5)

Where C = downstream concentration

Cs = upstream concentration

Qs = upstream flow

Ce = effluent concentration

Qe = effluent flow

Chronic wasteload allocations were determined using applicable chronic water quality criteria (CCC: criteria continuous concentration) and stream volume of flow at the edge of the mixing zone (MZ). Acute wasteload allocations were determined using applicable water quality criteria (CMC: criteria maximum concentration) and stream volume of flow at the edge of the zone of initial dilution (ZID).

Water quality based maximum daily and average monthly effluent limitations were calculated using methods and procedures outlined in USEPA's "Technical Support Document For Water Quality-based Toxics Control" (EPA/505/2-90-001).

<u>Biochemical Oxygen Demand (BOD<sub>5</sub>)</u>. 10 mg/L monthly average, [10 CSR 20-7.015(4)(B)1.]. Daily limits calculated by  $(10 \times 3.114) / 1.5524 = 20$  mg/L daily maximum.

<u>Total Suspended Solids (TSS)</u>. 15 mg/L monthly average, [10 CSR 20-7.015(4)(B)2.]. Daily limits calculated by  $(15 \times 3.114) / 1.5524 = 30$  mg/L daily maximum.

**pH.** pH shall be maintained in the range from six to nine (6-9) standard units [10 CSR 20-7.015(4)(B)3.]

<u>Fecal Coliform</u>. Discharge shall not contain more than a monthly geometric mean of 400 colonies/ 100 mL, daily maximum of 1000 colonies/100 mL [10 CSR 20-7.015(4)(B)4.] Future renewals of the facility operating permit will contain effluent limitations for E. coli which will replace fecal coliform as the applicable bacteria criteria in Missouri's water quality standards.

• **Total Ammonia Nitrogen.** Early Life Stages Present Total Ammonia Nitrogen criteria apply [10 CSR 20-7.031(4)(B)7.C. & Table B3]. Background total ammonia nitrogen = 0.01 mg/L.

Season	Temp (°C)	pH (SU)	Total Ammonia Nitrogen CCC (mg N/L)	Total Ammonia Nitrogen CMC (mg N/L)
Mar 1 – May 31	16	7.8	2.8	12.1
Jun 1 – Aug 31	28	7.8	1.3	12.1
Sept 1 – Nov 30	16	7.8	2.8	12.1
Dec 1 – Feb 29	6	7.8	3.1	12.1

Spring: Mar 1 – May 31, Summer: Jun 1 – Aug 31, Fall: Sep 1 – Nov 30, Winter: Dec 1 – Feb 29

Spring - Chronic WLA = 2.8 mg N/L, Acute WLA = 12.1 mg N/L. No mixing zone is allowed.

$$LTA_c = 2.8 \text{ mg/L } (0.780) = 2.2 \text{ mg N/L}$$
 [CV = 0.6, 99<sup>th</sup> Percentile, n = 30]   
 
$$LTA_a = 12.1 \text{ mg/L } (0.321) = 3.9 \text{ mg N/L}$$
 [CV = 0.6, 99<sup>th</sup> Percentile]

$$MDL = 2.2 \text{ mg/L} * 3.114 = 6.8 \text{ mg N/L}$$
 [CV = 0.6, 99<sup>th</sup> Percentile]  
 $AML = 2.2 \text{ mg/L} * 1.5524 = 3.4 \text{ mg N/L}$  [CV = 0.6, 95<sup>th</sup> Percentile, n = 4]

Summer – Chronic WLA = 1.3 mg N/L, Acute WLA = 12.1 mg N/L. No mixing zone is allowed.

$$\begin{split} LTA_c &= 1.3 \text{ mg/L } (0.780) = 1.0 \text{ mg N/L} \\ LTA_a &= 12.1 \text{ mg/L } (0.321) = 3.9 \text{ mg N/L} \end{split} \\ & [CV = 0.6, 99^{th} \text{ Percentile, n} = 30] \\ [CV = 0.6, 99^{th} \text{ Percentile]} \end{split} \\ & MDL = 1.0 \text{ mg/L} * 3.114 = 3.1 \text{ mg N/L} \\ AML &= 1.0 \text{ mg/L} * 1.5524 = 1.6 \text{ mg N/L} \end{split} \\ & [CV = 0.6, 99^{th} \text{ Percentile]} \\ [CV = 0.6, 95^{th} \text{ Percentile, n} = 4] \\ \end{split}$$

Fall – Chronic WLA = 2.8 mg N/L, Acute WLA = 12.1 mg N/L. No mixing zone is allowed.

Winter - Chronic WLA = 3.1 mg N/L, Acute WLA = 12.1 mg N/L. No mixing zone is allowed.

$$\begin{split} LTA_c &= 3.1 \text{ mg/L } (0.780) = 2.4 \text{ mg N/L} \\ LTA_a &= 12.1 \text{ mg/L } (0.321) = 3.9 \text{ mg N/L} \\ MDL &= 2.4 \text{ mg/L} * 3.114 = 7.5 \text{ mg N/L} \\ AML &= 2.4 \text{ mg/L} * 1.5524 = 3.8 \text{ mg N/L} \\ \end{split} \begin{tabular}{l} [CV &= 0.6, 99^{th} \text{ Percentile}] \\ [CV &= 0.6, 99^{th} \text{ Percentile}] \\ [CV &= 0.6, 95^{th} \text{ Percentile}] \\ [$$

Season	Maximum Daily Limit (mg N/L)	Average Monthly Limit (mg N/L)
Mar 1 – May 31	6.8	3.4
Jun 1 – Aug 31	3.1	1.6
Sept 1 – Nov 30	6.8	3.4
Dec 1 – Feb 29	7.5	3.8

#### **Total Residual Chlorine**

Chronic WLA = 0.002 mg/L. No mixing zone is allowed. No acute values for Chlorine for losing streams. LTA<sub>c</sub> = 0.002 mg/L (0.5274) = 0.0010548 mg/L TRC

MDL = 0.0010548 mg/L (3.114) = 0.0033 mg/L TRCAML = 0.0010548 mg/L (1.5524) = 0.0016 mg/L TRC

Reviewer: Megan Hart Date: August 10, 2006 Unit Chief: Gale Roberts, P.E.

Monitoring and effluent limits contained within this document have been developed in accordance with EPA guidelines using the best available data and are believed to be consistent with Missouri's Water Quality Standards and Effluent Regulations. If additional water quality data are available that may affect the recommended monitoring and effluent limits, please forward these data to the author.